THE AGE OF CEMENT By FREDERIC J. HASKIN

rank ahead of cement in the value of productions from the earth, and cement and iron are now running neck and neck. Cement long ago passed the gold mines; lead and zinc together are not nearly so valuable, and silver and copper are no longer contenders in the race. The United States began to make Portland cement in 1875. Five years thereafter the annual production had reached 42,000 barrels. By 1895 the output had reached the million barrel mark, and last year the Portland coment produced in this country amounted to 46,400,000 barrels. ed to 46,400,000 barrels.

Portland cement is the most versa-tile material man has ever used in con-struction. It is taking the place of tim-ber for piles, telegraph and telephone posts, railroad ties, fence posts non even shingles. It is used for building bridges where steel was the only possible mate-zial ten years ago. It is used for dams, locks, retaining sea walls and breakwaters where stone massary was breakwaters where stone masoury was imperative a few years since. It is used for chimneys and sidewalks instead of brick. It is used for grain bins instead of any other material. Resultance with bars and rods of steel, the Portland coment concrete goes into a monolithic building twelve stories high. Pressed into hollow blocks it goes have small colleges which imitate houses breakwaters where stone masoury was into small cottages which imitate houses

There are three kinds of cement that are of importance—Portland, natural and Puzzolan. Natural cement has been made in the United States for seen made in the United States for hearly a bundred years, having been employed in constructing the Eric canal in 1819. The industry flourished, showing a gradual growth from year to year, until two years ago, when it began to show an actual decrease, and it is now on the wane. Engineers do not condemn it, and they regret that the industry is dying out. Natural cement is made by burning a naturally impure limestone of a clayey nature at a comparatively low temperature, about such as is used in burning lime. The burned stone is ground to a powder and is then ready for use. ready for use.

Puzzolan cement is the oldest of cereats, and was made by the ancient Romans. It is prepared by mixing powdered slaked lime with volcanic ashes. In the United States the slag from iron furnaces is substituted for the volcanic ashes, there being little or no rhemical difference. This coment is better for use under water than in

Portland cement is of comparatively

Cement making is an industry which has grown a thousand fold in twenty-five years, which is fifty times greater than it was ten years ago, which increased 50 per cent last year, and which in its short life has come to rank with the first mineral industries of the land. It now has the claim to the first place in the honor roll of those mighty commercial forces which are operating to make the United States the foremost of the nations. Only coal and pig iron rank ahead of cement in the value of productions from the earth, and cement and iron are now running neek and meck. Cement long ago passed the gold mines; lead and zane together are not nearly so valuable, and silver and copper are no longer contenders in the able portion of the compound when at tacked by sea water.

> The figures given in this article relate to Portland cement only. The manufacturers, who sold \$30,000,000 worth in 1905, sold \$50,000,000 worth the next year, and the increase for 1907 is expected to be in the same pro-portion. From 1870 to 1890 the price portion. From 1870 to 1890 the price of Portland cement was the price of the German product, plus the freight, going from \$4 to \$2 a barrel in that time. With the growing importance of the American industry, the prices dropped sharply after 1890, reaching the lowest average, about 80 cents a barrel, in 1904. The demand in the last two or three years has been so great, however, that the price has again. great, however, that the price has again risen, and for the last year the aver-age was about \$1.15. The manufacture of cement has

NHEUSER - BUSCH

SPARKLING WE CONCENTRATED LIQUID EXTRA

For 12 tops of Red Metal caps from Large Malt-Nutrine Bottles with Gold Trade-mark or 24 from

Split Bottles with Black Trade-mark and 15c for postage, we will send one of our Vienna Art Plates to any address in the United States.

ion, the increasing use of this material is adding to the artistic merit of small cottage construction. Thomas A. Edison has a scheme which he declares will soon be in every day practice, whereby the building of a cottage will be the work of one day. He proposes to make moulds of metal which can be taken to pieces and carried about. These moulds will be set up and screwed to-

moulds will be set up and screwed to-gether and the cement pumped into them. When it hardens, the moulds are

to be unscrewed and taken away, and there will be the house, roof, walls,

floors, stairways, porches, columns, chimneys, everything but the doors and windows. This will reduce the price of a cottage now costing \$2000 to \$500 or less, and Mr. Edison thinks it will mean a home for every workingman.

into the earth. The sand, dirt, and water will sometimes squirt two or three feet above the surface from the

dx or eight corrugations around the oile. Once driven, the pile is there forever. It will not not like wood, and

The first house built of reinforced

The Parthenon of Athens has been he accepted ideal of architectural beau-y for centuries. It has never been re-reduced in exact dimensions but once,

Loses Arm Handling Money.

MANUA, July 22.—Major Paymaster Engene Coffin has had his left arm am-utated, the result of infection from the andling of money paying the troops. He cas a veteran of the Civil war and a number of the old McKinley regiment.

Queen Honors Delegates.

Pioneer Day at Liberty Park. Held's

the water cannot disintegrate it.

age was about \$1.15.

The manufacture of cement has proved a profitable business, but only when undertaken on a large scale. According to experts, the smallest plant which could be expected to pay a remunerative return would be a four-kilu nill which would got \$500,000 torrest. mill, which would cost \$500,000 to erect. A ten-kiin plant would cost \$1,000,000 to \$1,500,000. Half of the Portland coto \$1,500,000. Half of the Portland coment of the country is made in Pennsylvania, the largest plant being at Northampton in the Lehigh valley. The Missouri and Kansas plants come next, while in California there is a wonderful growth of the industry, due in part to the ensumed in the reconstruction of San Francisco.

The chief fault to be found with con crete for construction purposes is that a mistaken idea has been spread broad-cast in the minds of people that any-body can work with it, even to erecting body can work with it, even to erecting buildings. Therefore, when no engineer is employed, the advice of a concrete expert is not asked, and common labor is put to work, a building sometimes collapses before it is finished, just as a brick or stone or steel building would collapse under similar circumstances. Where the concrete building is properly constructed it is almost perfectly safe. constructed it is almost perfectly safe, as was proved in the Baltimore fire and in the carthquake and fire at San Francisco, the most severe tests to which any building could be subjected.

For smaller houses and residences, the Portland coment is of comparatively use of the concrete building blocks is recent origin. It was first used in spreading rapidly. As the blocks can Leeds, England, by Joseph Aspdin in be made in any desired shape or fashANHEUSER-BUSCH'S is more than a mere tonicit is a predigested

Liquid Food

invaluable to nursing mothers, feeble children, the aged and infirm. The most delicate stomach will accept and retain it after all other liquid or solid foods have been refused.

Sold by all Druggists and Grocers in cases of 1 Doz. Large or 2 Doz. Split Bottles

Anheuser-Busch-St. Louis, Mo. Brewers of the

Famous Budweiser Beer



PIONEERS AT LAGOON

Great honors will be conferred on the pioneers, their descendants and friends next Wednesday, the sixtieth anniversary of the arrival of the State-

Ball Game for the Championship of Utah-Dubei Tailors vs. Bountiful Team.

Free Dancing, Special Music, Roller Skating, Scenic Railway,

Shoot-the-Chutes, Electric Launch, Delightful Boating, Animals and Birds,

Athletic Sports, Flowers and Lawns,

Merry-Go-Round.

The Glorious 24th

Salt Lake trains: 8:45, 10 and 11 a. m.; 1, 2, 3, 4, 5, 6, 7, 8 p. m.

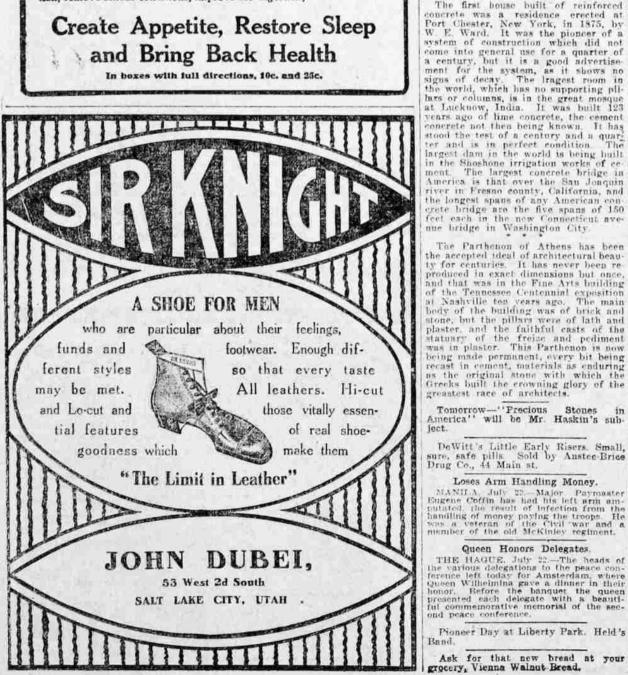
"Blessings Brighten as They Take Their Flight."

Health is never so much prized as when illness interferes with pleasure or work. When the stomach is sick, the digestion weak, the nerves unstrung the head heavy with pain, nothing seems so desirable as a sound mind in a healthy body. Keep stomach, liver and bowels

and you will rarely lose a day's work or an evening's pleasure through sickness. These pills are a safe corrective and a general tonic, the good effects of which are felt throughout the entire body. Whenever you are not feeling at your best, take Beecham's Pills. They relieve constipation, remove bilious conditions, improve the digestion,

Create Appetite, Restore Sleep and Bring Back Health

In boxes with full directions, 10c. and 25c.



Piles made of concrete can be driven in two minutes with an ordinary pile-driver without so much as knocking off a chip as big as a fingernail. The piles are cast in moulds, the reinforcing bars of steel being buried in them. They are corrugated with deep flutings, six or eight to the civele, and the pile has a tube running through the center. Under the hammer of the pile-driver is a cushion cap which fits on the head of the pile. Through this cap a pipe runs into the hole in the center of the pile. When the hammer first falls, water is forced through the pipe at high pres-"THE PRETTIEST SPOT IN UTAH!" **Guessing Contest** When the hammer first falls, water when the hammer forces the sand and dirt away from the bottom of the pile and it finds its way to the surface along the flutings. As the water extended in the hammer drives the pile

Actual Number Envelopes in Our Window

Closed!

Nearest Guess, 1611—By C. J. Allred Second, 1743-By C. C. Woodward Third, 1600—By Fisher Harris

Culmer Paint & Glass Co. 20 East South **ACME QUALITY PAINT STORE**



SPEND YOUR =

Twenty-Fourth the Salt Palace

SPECIAL FEATURES

THE SCHAAR TRIO, TRICK BICYCLISTS. THE DEVIL'S CHIMNEY, ENTIRELY NEW, THE BIG WILD WEST SHOW. HELD'S BAND CONCERT. BIG LIST OF FREE ATTRACTIONS. ADMISSION TO GROUNDS PREE.

The Tribune Gives Your Wants the Largest Circulation

REAL **ICE CREAM SODA**

That's the kind we serve at our Soda Fountain. We make it our-selves and it is made out of pure sweet cream and sugar. If it were possible to make it better we should do it.

We sell the ICE CREAM 25c the pint; 50c the quart.

DAYTON DRUG CO.

Cor. 2nd So. and State Sts

ORPHEUM THEATRE

The Superb Orpheum Stock Company, Under the Management of Roy Clements.

TONIGHT!

Nat C. Goodwin's Great Success "TURNED UP"

A Farce Comedy in Three Acts Marinees Wednesday and Saturday.

LAGOON ROAD.

SALT LAKE & OGDEN RAILWAY CO. Time Table in Effect June 1, 1907.

Trains Leave
Trains Leave
Lagoon and
Farmington.

26 TRAINS DAILY. SALTAIR TIME TABLE. Depot, Second South, Between Third and Fourth West

TRAINS LEAVE. ARRIVE.

WANDAME Musical Chautauqu AND ALL THIS WE

TONIGHT Festival Chorus in the "Minnehaha" from "Hiawa Salt Lake Tab. Choir, and great programme.
J. J. McClellan and H.

WEDNESDAY Artists' Night. Rare pleading soloists.

THURSDAY, FRI and SATURDAY Grand Music Contest.

CONTESTANT ERFORMERS-

Grand Choruses
Male Quartettes
Planists (Seniors and Jan
Violinists (Seniors and Jan
Sopranos, Contraitos,
Tenora, Baritones. SEASON TICKETS on sale at Music Co.. \$1.00 for enti-(reserved), including admi-grounds.

SPECIAL CARS leave Sand Main at frequent in 6 p. m. Take an early avoid rush and to see that and feel the cooling Wandamere.

At Wandamere will be found the most complete carse West and all refreshment grounds, as well as at the car served at city prices. TRIUMPH ASSURE

J. M'CLELLAN, FRED OF

BATHING B

Finest Dance Floo the World

GLORIOUS

More Attractions To Any Other Resu

All charges same as except 10c each for entire

of dancing.

Pharaoh's 6 Resort

Parley's Canyo The typical mo

is now open for the tents and tent sites to location. Telephone Ind. 2285 or

for particulars. RAYMOND E. DAVID

UPPER FAL Resor

In the heart of the b Canyon.

Tents, tent cottages in log cabin, and Rates reasonable. hours ride on R. from city. L. L. Donnan, Prop

Wasatch Re Little Cottonwood

OPENS JULY Hotel prices reasonable, tage for rent. For partial Bell 421 Black, Murray. Stage leaves Willes-Hors corner daily at 5 p. m. For stage accommodates phone R. B. T. Taylor, 2nd North. Bell phone 2014.

HERMITA

OGDEN CANYO Everything first-class, gent J. J. GALLAGHER, Man Billy Wilson,